

Amendments to the Abstract:

Please amend the Abstract of the Disclosure as submitted herewith.

~~The invention relates to a~~ A protective gas device for the melting furnaces of pressure die-casting machines ~~(1)~~, in particular for processing a magnesium melt. ~~According to the invention, a~~ A collection container of a mixing device ~~(2)~~ for the components of a protective gas, which covers the melt to prevent oxidation or other damage, is configured as a pressure accumulator and the orifices for feeding the protective gas into the melting furnace are provided with inlet nozzles. ~~(9, 9a), which are impinged~~ Gas flow to the inlet nozzles is regulated by metering devices ~~(7, 7a)~~. The operating pressure ~~of the latter~~ is equal to or less than the pressure in the pressure accumulator of the mixing device ~~(2)~~, but high enough to atomise the jets and produce a turbulent inflow behind the inlet nozzles. Said pressurized protective-gas distribution permits the metering of gas into various furnace chambers or furnaces without repercussions. A uniform concentration of the protective gas can be achieved in all areas by the selective arrangement of the inlet nozzles.